

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2091_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA has copy of O & M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD2091_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2091_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA maintains a good working knowledge of flood response activities and has been involved in flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.08	Rating **	M	Issue No.	45	
LM End	0.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP LMA Responsibility			37.541970 °		37.541970 °
				-121.093980 °		-121.093980 °
DWR ID	23155					
Comment Code						
Inspector Comment						
DS_ID:23155 FS_ID:43207 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 7.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.07), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 906+85)]. FS Date: 1/29/2015 2:26:31 PM						

Photo 1 of 3 : UCIP_FA_2019_43207_38148.jpg



Slide gate in 36-inch CMP riser on WS toe.

LM Start	0.08	Rating **	M	Issue No.	45 (cont)
LM End	0.08	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_43207_38147.jpg



Slide gate in 36-inch CMP riser on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.08	Rating **	M	Issue No.	45 (cont)	
LM End	0.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP LMA Responsibility			37.541970 °		37.541970 °
				-121.093980 °		-121.093980 °
DWR ID	23155					
Comment Code						
Inspector Comment						
DS_ID:23155 FS_ID:43207 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 7.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.07), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 906+85)]. FS Date: 1/29/2015 2:26:31 PM						

Photo 3 of 3 : UCIP_FA_2019_43207_38146.jpg



CMP stormdrain at outlet off WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.10	Rating **	M	Issue No.	46	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.542030 °	37.542030 °	
				-121.094370 °	-121.094370 °	
DWR ID	23156					
Comment Code						
Inspector Comment						
DS_ID:23156 FS_ID:53094 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent. No integrity issues were observed along pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. Crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection this is a non-functional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be opened. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (W. Wylie - City of Modesto) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.10), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 907+55)]. FS Date: 10/18/2018						

Photo 1 of 3 : UCIP_FA_2019_53094_38150.jpg



36-inch CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.10	Rating **	M	Issue No.	46 (cont)	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.542030 °	37.542030 °	
				-121.094370 °	-121.094370 °	
DWR ID	23156					
Comment Code						
Inspector Comment						
DS_ID:23156 FS_ID:53094 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent. No integrity issues were observed along pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. Crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection this is a non-functional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be opened. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (W. Wylie - City of Modesto) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.10), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 907+55)]. FS Date: 10/18/2018						

Photo 2 of 3 : UCIP_FA_2019_53094_38149.jpg



Slide gate missing from open end of pipe at WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.10	Rating **	M	Issue No.	46 (cont)	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.542030 °	37.542030 °	
				-121.094370 °	-121.094370 °	
DWR ID	23156					
Comment Code						
Inspector Comment						
DS_ID:23156 FS_ID:53094 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent. No integrity issues were observed along pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. Crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection this is a non-functional crossing with no visible inlet on LS or outlet on WS. The only appurtenance found at this location is a CMP riser with a missing cover located on the WS. This crossing remains Urgent since the pipe on the WS may still be opened. According to Mike Alves, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. (W. Wylie - City of Modesto) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser located on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.10), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 907+55)]. FS Date: 10/18/2018						

Photo 3 of 3 : UCIP_FA_2019_53094_76669.jpg



Overview of levee crown at pipe crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.23	Rating **	A/W	Issue No.	15
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder noted in 2017 possible collapsed pipe. Monitor for potential reoccurrence.					

Photo 1 of 2 : FA_2019_RD2091_318_15_20190912_00013.jpg



Looking southwest at the dip on the landside shoulder.

LM Start	0.23	Rating **	A/W	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_RD2091_318_15_20190912_00014.jpg



Looking northeast at the dip in the landside shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.24	Rating **	M	Issue No.	47	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.541564 °	37.541564 °	
				-121.096792 °	-121.096792 °	
DWR ID	23158					
Comment Code						
Inspector Comment						
DS_ID:23158 FS_ID:53431 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent, no integrity issues were observed along the pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. This crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike Alves, this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 915+00)]. FS Date: 10/18/2018						

Photo 1 of 3 : UCIP_FA_2019_53431_38156.jpg



Pipe visible in canal on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.24	Rating **	M	Issue No.	47 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.541564 °	37.541564 °	
				-121.096792 °	-121.096792 °	
DWR ID	23158					
Comment Code						
Inspector Comment						
DS_ID:23158 FS_ID:53431 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent, no integrity issues were observed along the pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. This crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike Alves, this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP) 10/15/2013 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 915+00)]. FS Date: 10/18/2018						

Photo 2 of 3 : UCIP_FA_2019_53431_38155.jpg



Flapgate has fallen off at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.24	Rating **	M	Issue No.	47 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.541564 °	37.541564 °	
				-121.096792 °	-121.096792 °	
DWR ID	23158					
Comment Code						
Inspector Comment						
DS_ID:23158 FS_ID:53431 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/18/2018 Crossing remains abandoned. Unable to locate WS outlet due to dense vegetation. Crossing has been downgraded from Urgent to Non-Urgent, no integrity issues were observed along the pipe alignment. LMA is still seeking proper abandonment or removal of this crossing. This crossing is part of the Deferred Maintenance Project (DMP) phase 1 inspection. No video inspection has been completed yet. (O. Magana - DWR UCIP) 11/18/2016 Same as last inspection. This crossing remains Urgent due to the flap gate still missing from the WS toe. According to Mike Alves, this crossing is an abandoned line and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Drain opening is located approximately 15 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.23), Drawing No. 07-04-1555, Sheets 1555/17 and 1555/55, (Station 915+00)]. FS Date: 10/18/2018						

Photo 3 of 3 : UCIP_FA_2019_53431_38154.jpg



Concrete headwall under pipe at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.25	Rating **	A/W	Issue No.	16
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several sites of rill erosion and possible rodent holes along landward shoulder and slope.					

Photo 1 of 2 : FA_2019_RD2091_318_16_20190912_00015.jpg



Looking northwest at rill erosion on landside slope.

LM Start	0.25	Rating **	A/W	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_RD2091_318_16_20190912_00016.jpg



Looking east at rill erosion above rodent hole on landward slope. (Spring 2017)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.63	Rating **	M	Issue No.	48	
LM End	0.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.541220°	37.541220°	
				-121.103880°	-121.103880°	
DWR ID	23161					
Comment Code						
Inspector Comment						
DS_ID:23161 FS_ID:51639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate and concrete headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.64)]. FS Date: 11/18/2016						

Photo 1 of 3 : UCIP_FA_2019_51639_38158.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

LM Start	0.63	Rating **	M	Issue No.	48 (cont)
LM End	0.63	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_51639_38157.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.63	Rating **	M	Issue No.	48 (cont)	
LM End	0.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.541220 °	37.541220 °	
				-121.103880 °	-121.103880 °	
DWR ID	23161					
Comment Code						
Inspector Comment						
DS_ID:23161 FS_ID:51639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate and concrete headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.64)]. FS Date: 11/18/2016						

Photo 3 of 3 : UCIP_FA_2019_51639_76677.jpg



View of LS.

LM Start	0.94	Rating **	C	Issue No.	14
LM End	6.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.537775 °	37.482295 °
				-121.106730 °	-121.051592 °
DWR ID	LMA-298				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Wave wash damage/erosion of 2 miles ... see attached description and photos					
Site ID No:471					
Site Designation:LMA-298					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Low priority because wavewash scarps are less than 1 ft and do not cut into prism significantly and can be repaired by district through O&M. There is also a large berm here. Wavewash is present on both LS and WS.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	1.41	Rating **	C	Issue No.	11
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.531243 °	37.530896 °
				-121.106716 °	-121.106737 °
DWR ID	DWR_RD2091_01_f_2017_11				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Minor erosion on waterside toe.					

No Photos

LM Start	1.41	Rating **	C	Issue No.	24	
LM End	1.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.531170°		37.530760°
				-121.106750°		-121.106710°
DWR ID	DWR_RD2091_01_R_2012_01					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:132						
Site Designation:DWR_RD2091_01_R_2012_01						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/7/2017						
Notes: Wavewash erosion up to 12" deep at high water mark.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.526083 °	37.525897 °
				-121.099328 °	-121.099116 °
DWR ID	DWR_RD2091_01_f_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the landside toe.					

Photo 1 of 1 : FA_2019_RD2091_318_18_20190912_00017.jpg



Looking southeast at erosion on the toe of the landside slope.

LM Start	4.83	Rating **	C	Issue No.	34
LM End	4.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.494396 °	37.494396 °
				-121.078306 °	-121.078306 °
DWR ID	DWR_RD2091_01_f_2017_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	4.83	Rating **	C	Issue No.	41	
LM End	4.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.494300 °	37.494300 °	
				-121.078300 °	-121.078300 °	
DWR ID	LMA-37					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:117						
Site Designation:LMA-37						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/7/2017						
Notes: Very minor erosion at toe of levee. Depth of erosion is 3" max.						

No Photos

LM Start	4.84	Rating **	C	Issue No.	10
LM End	4.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.494297°	37.494115°
				-121.078233°	-121.078100°
DWR ID	DWR_RD2091_01_f_2018_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No visible burrows and rodent control program visible. (2018)					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	5.20	Rating **	C	Issue No.	13
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.490756 °	37.490756 °
				-121.073410 °	-121.073410 °
DWR ID	DWR_RD2091_01_f_2016_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle traffic damaging slope on landward slope.					

No Photos

LM Start	5.74	Rating **	C	Issue No.	21
LM End	5.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.485318 °	37.485318 °
				-121.066454 °	-121.066454 °
DWR ID	DWR_RD2091_01_s_2019_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle damage to landside slope.					

No Photos

LM Start	7.27	Rating **	M	Issue No.	17
LM End	7.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.480994 °	37.479774 °
				-121.046195 °	-121.044869 °
DWR ID	DWR_RD2091_01_f_2019_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2091_318_17_20191114_00045.jpg



View of the waterside slope looking upstream. (Fall 2019)

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	7.28	Rating **	M	Issue No.	19
LM End	7.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.480992 °	37.480799 °
				-121.046190 °	-121.045876 °
DWR ID	DWR_RD2091_01_f_2019_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2091_318_19_20191114_00046.jpg



View of the landside slope looking upstream. (Fall 2019)

LM Start	7.42	Rating **	U	Issue No.	8
LM End	7.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.479308°	37.478998°
				-121.044708°	-121.044660°
DWR ID	DWR_RD2091_01_s_2017_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repaired area with concrete containing rebar. Need to remove rebar.					

Photo 1 of 3 : FA_2019_RD2091_318_8_20190912_00001.jpg



Looking northeast at concrete rubble with rebar at landward toe next to canal.

LM Start	7.42	Rating **	U	Issue No.	8 (cont)
LM End	7.45	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2019_RD2091_318_8_20190912_00002.jpg



Looking east at concrete rubble with rebar at landward toe next to canal.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	11/05/2019 11/05/2019	Corey Fujitani

LM Start	7.42	Rating **	U	Issue No.	8 (cont)	
LM End	7.45	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.479308 °	37.478998 °	
				-121.044708 °	-121.044660 °	
DWR ID	DWR_RD2091_01_s_2017_8					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repaired area with concrete containing rebar. Need to remove rebar.						

Photo 3 of 3 : FA_2019_RD2091_318_8_20190912_00003.jpg



Looking east at repaired site on waterward slope and toe. (Spring 2018)

LM Start	7.45	Rating **	A/W	Issue No.	23	
LM End	7.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.479000 °	37.479000 °	
				-121.044000 °	-121.040000 °	
DWR ID	LMA-300					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Sloughing at Mile 7.59 of the San Joaquin River						
Site ID No:473						
Site Designation:LMA-300						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/20/2017						
Notes: Concrete rubble was installed here during the storms after noticing cracks and sloughing. It has rebar sticking out and needs to be replaced with clean rip rap. Responsibility is grey here because TID maintains channel and placed concrete during storm.						

Photo 1 of 3 : LEVAL_FA_2019_473_2326.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
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+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	11/05/2019 11/05/2019	Corey Fujitani

LM Start	0.01	Rating **	U	Issue No.	2
LM End	0.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482318 °	37.482685 °
				-121.051350 °	-121.050975 °
DWR ID	DWR_RD2091_02_f_2019_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2091_319_2_20191114_00004.jpg



View of the landside slope. (Fall 2019)

LM Start	0.02	Rating **	U	Issue No.	3
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482384 °	37.482685 °
				-121.051279 °	-121.050975 °
DWR ID	DWR_RD2091_02_f_2019_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2091_319_3_20191114_00005.jpg



View of the waterside slope. (Fall 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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